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Lunæ totaliter deficientis observationes, Londini in Arce Londinensi habitæ, idque in ædibus & cum instrumentis Jonæ More Equ. Aurati, à Johanne Flamsteadio, Astr. Regio, Nocte sequente d. Junii 26. 1675. ft. vet.

COelum à meridie præcedente nubibus densissimis coopertum, exiguam nobis spem reliquerat defectum hunc observandi; hisce tamen sub occasum Solis attenuatis, dispersis deinde, & circa horizontem subsidentibus, Jovem primùm paulò ante mediam noctem, satellitibus suis quatuor stipatum, deinde Lunam, sudo sub Cælo, vidimus. Intererat hisce observationibus, multumque eis suâ adjuvabat diligentia juvenis ingeniosus Edmundus Hally, Oxoniensis. Tubos adhibuimus præstantes duos, altero septem tantum pedes longo, quo Lunæ capte fuerunt diametri, & deficientis Lunæ partes residuæ illustratæ dimensæ; altero pedum amplius quàm 23, quo notatæ à me phasæ, & umbræ verè ad maculas appulsus. Binis etiam usi fuimus horologiis, quæ bis ad solem septimanâ præcedenti examinatæ, tempora cælestia accuratè exhibuisse inveniebantur: Quibus phasium sequentium tempora notavimus.

Hora horologii oscillatorii.				
h.				
1	13	01	00	Lunæ diameter 3190=31.40
2	13	08	30	Penumbra nulla
3	13	11	00	Rursus Lunæ di. 3191=31.46
4	13	18	00	Nulla penumbra.
5	13	37	50	Nec etiamnum penumbra vestigium: jamque Luna nubes subtervolantes subiit, sub quibus latuit usq;
6	13	46	40	Dum per earum hiatus penumbra densa, vel forsan ipsum initium apparuit; sed certus esse non poteram, quippe ab iis rursus excepta diluit, donec
7	13	51	40	E nubibus elevata limbus notabili satis defectu laborare visus est, obscurato sextante vel minimùm octante peripheriæ.
8	13	55	15	Pentadactylus rectus.
9	14	02	20	Porphyrites rectus.
10	14	05	30	Sine limbus primus.
11	14	06	00	Ætnæ limbus proximus.
12	14	08	40	Partes residuæ illuminatæ 2071=20'. 38".
13	14	12	00	Fixa exigua telescopica, minori tubo non visibilis, in majori apparuit dimidium ferè capacitatis ejusdem, vel 15'. à limbo apparenter inferiori distans.

Hora horologii oscillatorii.				
b.	'	"		
14	14	17	45	Partes illuminatæ residuæ, 1655=16'. 27".
15	14	23	05	Berbici limbus prior.
16	14	26	03	Horminius tectus.
17	14	29	00	Æmus tectus.
18	14	30	45	Partes illustratæ residuæ -- 1047=10'. 24".
19	14	35	00	Partes lucidæ residuæ — 865=8. 38; jamq; tubo longi- ori Fixa alia exigua apparuit, Macule Caspiæ longitu- dinem à limbo Lunæ, latitudinem ejus, à linea per cuspides ductâ dextram versus distans.
20	14	37	15	Umbra legebat occidentale littus Ponti.
21	14	39	30	Ipsa tetigit limbum primum Corocondometi.
22	14	45	00	Paludem Mæotiden tetigit.
23	14	50	45	Mæotis tota tecta.
24	14	56	10	Dubium an aliquid veri luminis supererat.
25	14	56	55	Immerfio: Certè enim lux primaria Lunam penitus de- serveat, scilicet è regione paulò supra montes Ripheos & circa gradum lim- bi Heveliani 330. Hor. 14. 57'. 30", limbus coloris cineritii per tubum appa- ruit. Aer à septima observatione ad Immerfionem serenissimus extitit; & lucula quedam albicans per totum defectionis tempus cuspides obscuratæ Lunæ visa est insidere, quæ eam etiam post immerfionem à parte, quæ ultimùm in um- bram inciderat, reddebat conspicuam. Venerem deinde tubo majori gibbam; Saturnum patulis auctum ansis vidimus, cujus tamen Satellites ob lucem adul- tam conspiciere non potuimus. Postero manè rursus Horologia ad Solem exami- nata, horas præcisè ad altitudines erutas ostendere comperimus.

Tenuis admodùm erat Eclipsis hujus Penumbra, nec major quàm Sinæ aut
Ætnæ latitudo. Palus Mæotis lata apparuit admodùm, & quàm maximè
ferè potuit, à limbo Lunæ remota. Mareotis è contra compressa admodum, nec
plus quàm dimidium longitudinis ipsius à limbo Lunæ distans.

Isaaci Bullialdi Observationes ejusdem Eclipsis, ab ipsomet communicatæ
in literis 17 Julii 1675. scriptis.

Initium veræ umbræ altâ Capellâ ad ortum	g. 18. 45'. H. 13. 55'.
Umbra attigit Paludem Mæot. altâ Lyrâ ad occ.	g. 50. 51. H. 14. 55.
Immerfio totalis altâ Lyrâ ad occ.	g. 48. 50. H. 15. 6.
Tabula meæ Phœlolaicæ ostendunt Initium Parisiis	H. 13. 50. 44".
Immerfionem totalem	H. 15. 0. 58.
Heckerus in Ephemerid. Initium Parisiis	H. 13. 49. 26.
Immerfionem totam	H. 14. 56. 12.